

NAME

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6-8451

DATE

4/16/41

Strange Mine Hole #1	
0 - 5	Reddish brown angular + well rounded medium to coarse sand cont. a few pebbles.
5 - 45	Brown fine dirty sand cont. a few coarse sand grains.
45 - 75	Very finely sandy yellow silt.
<u>Dh</u> 75 - 80	Greenish brown silty clay.
<u>Dh</u> 80 - 90	Greenish-brown clayey silt.
<u>5 to</u> 90 - 100	Greenish-brown compact silty clay
Strange Mine - Hole # 12	
0 - 25	Dirty brown coarse sand containing a few small pebbles, becomes a little finer in lower part.
25 - 60	Fine light-brown sand.
60 - 100	Tan very finely sandy silt. TD.
<u>All D.</u>	

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0-5	Strange Mine - Hole #2 Red sandy clay cont. a little Mn.
5-10	Red ^{Fine} medium sand. A few chips of porous the sandstone
10-15	Similar
15-35	V. finely silty yellow silt.
35-40 40-45	Similar
40-45'	Tan finely sandy silty clay. A few pieces of psilomelane.
45-50'	Similar with many chips of psilomelane.
50-55'	Similar with a little chert
55-60'	Similar clay
60-65' Db 55-60	Yellow silty clay with a little Mn.
65-75	Dark Khaki clay cont. chips of psilomelane & ss.
75-95	Khaki clay cont. chips & streaks of yellow & white clay.
95-100	Khaki clay cont. chips of laminated pink & white clay. TD. None of samples in this hole are carbonaceous.

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	Strange Mine - Hole # ③
0-5	Very dark brownish-gray subangular to subrounded sand cont. considerable Mn. dark
5-10	Fine, brown rounded sand cont. a little less Mn.
10-15	Fine dark brown sand grains sub-rounded
15-20	Very fine light-brown sand cont. a few bulbs of yellow silt.
20-25	Fine to very fine light reddish brown sand.
25-30	Pinkish-brown very finely silty silt.
30-40	Pinkish-tan silt, cont. a few small quartz pebbles (from above)
Db	
5+0	
40-50	Grayish-brown silty clay TD.
	Strange Mine - Hole # ④
0-5?	Rich coffee-colored compact sandy clay - a few pebbles.
5?-30	Yellow to brown finely sandy silt.
30-40	Tan v. finely sandy silt.
Db	
5+0	
40-45	Mixture of tan and dark grayish-brown (Khaki) silty clay
45-50	Grayish brown silty clay TD.
	Drilled sandstone 48'-50'

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	Strange Mine - Hole #4
0 - 20	Reddish brown subangular to well-rounded fine sand. Very Trace Mn. ³¹¹⁴⁷
20 - 30	Light brown very fine subrounded sand
30 - 45	Yellow to tan with v. finely silt.
<u>45 - 50</u>	<u>Yellowish brown silty clay. This may be Bocraft, but it resembles Tonoloway except in color. T.D.</u>
<u>maybe upper clay</u>	

	Strange Mine - Hole #15
0 - 10	Brown fine to very fine sand - Trace of Mn. A few chips of lf. grained lightgray sandstone
10 - 30	Yellowish to tan very finely sandy silt.
30 - 35	Brownish-gray silty clay that looks like Tonoloway. (Mislabeled 3) May be same as 45-50 in #4
<u>35 - 45</u> ^{Db}	Greenish yellow finely sandy silt.
<u>45 - 50</u> ^{Db}	Grayish-Brown silty clay T.D.

	Strange Mine - Hole # 19 ✓
10 - 30	Subrounded Fine to very fine red sand. Mn. 1 piece of quartzite and a piece of pink and white clay noted.
30 - 35	Similar sand containing a few lumps of yellow sandy silt.
35 - 55	Yellow to tan very finely sandy silt. T.D.
All Db.	

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Sample -		Stange Mine Hole #5
0-5'		Fine to very fine light reddish-brown sand angular quartz sand containing a few grains of pyrochlore.
5'-10'		Same as preceding. Color is of course that of a coating on quartz grains.
10'-15'		Khaki + light reddish brown silty clay containing a little sand. A few flakes of white Kaolin-like clay.
15'-20'		Silky clayey very fine-grained silty sand. Does not look like Beaufort. Some red stain.
20'-25'		Similar, but slightly more v.f. sand.
25'-30'		Light reddish tan v.f. sdy clayey silt; yellow silt.
30'-35'		Similar - A chip of clay that is decalcified limestone
35'-40'	Pb 540	Same as preceding.
40'-45'		Similar but darker brown. Contains a little black + dark brown clay that effervesces slightly.
45'-50'		Brown clay

NAME Samples W.H.M.

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April 12, 1941

Strange Mine Hole #7 ✓

0'-5' - No sample

5'-10' Light reddish-brown fine to coarse sub-angular earthy ^{quartz} sand. No Mn.

10'-15' Fine to coarse, sub-angular, quartz + sand, yellow to buff, some silt.

15'-20' Buff to reddish earthy rounded to sub-angular quartz sand containing a few cathedral quartz crystals. A little Mn stain.

20'-25' Yellowish-brown earthy sand-rounded to sub-angular. Several pieces of noncalcareous quartzite containing a few small pebbles up to 1/2" diam.

25'-30' Fine to medium, yellowish-brown to orange, loose quartz sand containing a few pieces of compact tightly cemented sandstone - prob. quartzite

30'-35' Light brown loose subrounded fine sand containing chips of quartzite & very porous white fine-grained sandstone.

35'-40' Same as preceding.

7

3038

95

~~2963~~

20

3061

95

~~2961~~

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Strange Mine Hole #7 cut

40'-45'

Same as preceding. A few chips of red clayey sand like gravel filling in open cut.
Some drilling thrown above

45-50'

Same as preceding. A few large chips of ~~light-colored~~^{light} gray very porous sandstone, and one small ball of light brown clay.

50-55'

Friable porous angular fine- to very fine-grained, ^{clean} quartz sandstone. A few pieces of quartzite. Bulk of sample consists of reddish brown silty earthy fine to very fine sand. A little Mn stain

55-60

Similar, but containing many pieces of bright red earthy fine to very fine sand + sandstone.

60-65'

A combination of preceding two samples

65'-70'

Yellow + buff silty clay containing white streaks. One fragment of disintegrated chert. (This may be Tonoloway ls.)

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Stratigraphic Column (cont.)

70'-75' Finely sandy & silty yellow clay containing some white kaolin-like material. Some what plastic when wet. Not calcareous.

75'-80' Same as preceding.

80'-85' Silty, clayey, very fine-grained sand plastic when wet.

85'-90' Gray to buff very finely sandy, silty clay. One piece of psilomelane, possibly from above. Not calcareous.

90'-95'
DB
5+0 Like preceding.

95'-100' Light olivedrab or dark khaki silty clay - a very characteristic clay residuum after limestone. Widely scattered sd. grains

100'-105' Same as preceding. Not calc.

105'-110' Same as preceding.

110'-115' Slightly greenish, grayish khaki clay containing scattered subrounded quartz grains and a few ~~#~~ fragments of white clay. Not calcareous. Like preceding, except that color is a little grayer.

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11 Strange Hole #7 (cont)
115-120 Like preceding, but contains also
 small balls of brick red clay
 like the gouge in large open cut,
 large lumps of khaki clay are
 dusted with red clay

120-125 Same as preceding. One fragment
 of bedded clay resembles decalcified
 chip of Cedar Creek Tonsilamy ls.

125-130 Same as preceding without the
 red dust.

130-135 Same as preceding with a little red
 stain (Shay ls according to Muon)

135-140 Slightly darker khaki clay like preceding
 containing pellets & chips of dark greenish-
 gray clay ~~and~~ ^{one} that contains small
 grains that effervesce. This is
the just below the base of the
zone in which weathering has removed
all lime. This ^{sample from} ~~zone~~ 15, the transition
zone between entirely weathered
and fresh ls.

140-145 Like preceding.

145-150 Like preceding but contains ^{knots of} larger
 calcareous clay

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Strange # 7 (cont.)

154-153

Dark Khaki clay, containing a little red clay. Clay very calcareous & contains chips of dark greenish-gray limestone.

Total Depth.

4/15/41

Strange Mine - Hole # ⑯

D.b

9-20 Fine light brown subrounded sand.

20-35 Very finely sandy light tan silt.

35-50 Similar, but contains clay chips of white & yellow clay.

45-50 Drilled like ss.

50'-55' Very fine subrounded yellow sand. T.D.

Strange Mine - Hole # ⑯

5-15 Reddish-brown very slightly clayey fine to very fine sand cont. a little MnO₂.

15-25 Light brown v. f. sandy silt.

25-35 Similar, but contains chips of v.f. grained dolom. white ss.

35-40 ~~50~~
51-52 Very finely sdy silt - pinkish tan

40-50 Khaki or grayish-brown clay containing chips of laminated laminated clay. Not calcareous T.D.

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		Strange Mine - Hole #9
6 - 10		Dark brown fine to medium sand containing a few small pebbles
10 - 15		Light brown silty very fine sand
15 - 25		Yellow v. finely sandy silt <small>color change (Mooy)</small>
25 - 30		Brownish gray silty very finely sandy clay. Looks like Tonoloway, may be same bed as 10-15 in Hole #20.
30 - 40		Brownish-yellow silt.
35 40 - 45		Mostly brownish yellow silty clay, but contains chips of brownish-gray clay Contact is probably in this interval.
DH <hr/> 45 - 50		Olive drab silty clay - T. 12.
		Strange Mine - Hole #8
2 - 10		Dirty coarse sand containing pebbles of sandstone
10 - 50		Fine brown sand containing a few pebbles of sandstone from above
All upper		
Dh.		

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	Strange Mine - Hole # ⑩
0-20	Fine sand impregnated and in part replaced by pyrofusite. Samples are brownish black to black. A few chips of soft white sandstone impregnated with Mn. A few broken quartz pebbles.
20-50	Yellow very finely sandy silt. Some contains considerable clay binder. T.D. 35-40 clay
All D.b.	Strange Mine - Hole # ⑪
0-5	Light brown clayey silt containing scattered sand grains & a little Mn.
5-20	Light tan silt cont. scattered sd grains
20-30	Similar, but saw some quartzite chips. T.D.
	Strange Mine - Hole # ⑫
0-5	Fine sandy loam cont. considerable Mn.
5-10	Finely sandy silt cont. some Mn and clay
10-20	Buff silt.
20-30	Similar silt that contains a few chips of Khaki (grayish brown) clay. Contact may be with this interval.

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	Strange Mine - Hole # <u>11</u>
0 - 10	Fine brown sub-rounded sand cont. considerable Mn.
10 - 25	Brownish-yellow silt cont. a little Mn.
25 - 40	Light buff silt, containing chips of gray clay. No. Mn. ← change
40 - 45	A mixture of yellow silt, brown clay & grains of red clay.
<u>D_b</u> 45 - 50 ^{5 to}	Grayish brown clay cont. chips of yellow silt. T.D.
	Strange Mine - Hole # <u>23</u>
0 - 5	Fine to medium black sand cont. considerable Mn.
5 - 10	Brown clayey sand containing a little Mn.
10 - 35	Light brown sandy silt. A very little Mn. in upper part.
35 - 40	Very fine reddish-brown sand
40 - 55	Pinkish-tan silt.
<u>D_b</u> 55 - 60 ^{5 to}	Grayish-brown clay T.D.
	Moon puts Buckfat at 50' where color change was noticeable

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Strange Mine - Hole # 18	
5-9	Red clay containing fine to coarse angular quartz grains.
10-15	Similar.
17-25	Reddish-brown silty fine to coarse sand containing a few well-rounded quartz pebbles up to $\frac{1}{4}$ " long.
25-50 upper All Db	Reddish-brown fine subangular sand containing rounded pebbles of white sandstone and quartzite. One fragment of ss (25-30) is $1\frac{1}{2}$ inches long. T.D.

Strange Mine - Hole # 20	
5-10	Tan finely sandy silt.
10-15	Gray silty clay. Looks like Tarentoway clay but is underlain by silt.
15-20	Tan silt containing a little Mn.
20-25	Yellowish-brown finely sandy silt.
25-50' Db 5 to	Grayish-Brown silty clay. Contains a few chips of purple, sand white, and yellow clay. Not calcareous. T.D.

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	Strange Mine - Hole # 23
0-5	Buff sand containing some quartz gravel and a little Mn.
5'-10'	Dark buff very fine sand.
10'-30'	Dark yellow or tan very finely sandy silt.
30'-50'	Yellow to tan very finely sandy silt.
50'-55'	Grayish brown very finely sandy clay. One piece of paler yellow short
55-60	Brown silty clay containing chips of yellow silty clay
0-5	Strange Mine Hole # 27
5'-10'	Brown silty medium to fine sand similar. A few chips of the porous fine sandstone.
10'-15'	Similar Trace Mn.
15-20'	Similar with chips of sandstone. In general, more silty.
20-25	Mostly light brown silt.
25-30'	Light brown silt. Grains are angular.

NAME *Sanderson - W.H.M.*
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Strange Mine Hole #29	
0-5	Fine powdery silt (brown) containing some Mn.
5'-10'	Dark tan powdery silt.
<u>10'-15'</u> ^{DB}	Similar. Some red (burnt?)
<u>15'-20'</u> ^{DB}	Similar - A little clay binder.
<u>20'-25'</u> <u>DB</u> <u>5"</u>	Similar - contains a little v.f. sand. Prob. all DB
<u>25'-30'</u>	Very finely sandy silty clay TD.
Strange Mine - Hole #25	
0-15	Reddish-brown fine sand. A few 1/4" pebbles
15-25	Similar, but in general a little finer
25-50	Yellow ^{v. soft} finely sandy, slightly clayey silt.
50'-60'	Similar, but contains some potassium.
60'-65'	Similar, but contains a few clay chips that may be Tonolaway
<u>DB</u> <u>5 to</u> <u>65'-75'</u>	Brown sandy clay TD.

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	Strange Mine Hole # 26
0-5'	Fine khaki silty clay.
5-10'	Yellowish Brown silt containing scattered lumps of MnO ₂ and many scattered sand grains.
10-15'	Similar.
15-20'	Fine to coarse yellow quartz sand and a little quartz & gravel in silt. No MnO ₂ .
20-25'	Similar
25-30'	Similar, but contains a little Mn. S+o
30-35'	Khaki silty clay
35-40'	Similar containing chips of limestone T.P.

300'
2961
~~40~~

NAME Samples - WHM,
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Strange Mine - Hole #28	
0'-5'	Dark reddish brown very finely sandy clay containing numerous grains of MnO ₂
5'-10'	Same as preceding - less sand.
10'-15'	Clay like preceding but very little sand + MnO ₂
15'-20'	Khaki-colored silty clay containing a few little limonite nodules. Plastic whenever
20'-25'	Light tan silty clay, containing a little red stain
25'-30'	Grayish tan silty clay containing fine quartz grains and many specks of white clay. One piece of pyrolytic (from above?)
30'-35'	Clay similar to above.
35'-40'	Very fine quartz sand in a matrix of clay like above <u>Up</u> <u>375</u> (Color change)
40'-45'	Khaki silty clay containing a few chips of white & of pink tightly cemented very fine-grained sandstone or quartzine
45'-50'	Khaki silty clay containing contorted streaks of yellow & of dark greenish gray clay. A few pellets of white kaolin-like clay

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	Stratigraphic Thickness	Description
30'-55'		Khaki silty clay, slightly darker than above. Not calc. Some red stain
55'-60'		Same as last sample. No red stain
60'-65'		Same as preceding
65'-70'		Same as preceding
70'-75'		" " "
75'-80'		Same silty khaki noncalcareous clay.
80'-85'		Khaki clay containing chips of decalcified ls tone angular pebbles of limonite containing a psilomelane core. Much red stain.
85'-90'		Khaki silty clay with red stain
90'-95'		Same as preceding sample
95'-100'		Same as preceding. All these samples contain hard scattered grains that look like psilomelane - prob. from above.
100'-105'		Similar - Not calc.
105'-108'		Similar but containing small calc. streaks.
107'-108'		Washed - Made up of chips of greenish gray ls - T.D.

NAME Samples with Pb
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Strange Mine - Hole # (30)

0-5' Coffee-colored heavy medium sand

5-10' Khaki Fine sand containing many grains of MnO₂.

10'-15' Similar but less MnO₂.

15'-30' (3) All Khaki fine sand containing a little MnO₂.

30'-35' Light tan fine silty sand. No MnO₂.

35'-40' Similar.

40'-45' Similar, but contains a few fragments of the very porous fine sandstone.

45'-50' Similar.
^{Pb}
5 to 7'

50'-55' Similar matrix containing flakes of dark greenish brown clay.
Moor Banks all Becroft.

NAME Monroe-Sampson
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Strange Mine Hole #31	
0'-5'	No sample
5'-10'	Dark reddish-brown fine to medium sand
10'-15'	Brick red sand containing pebbles up to $\frac{1}{2}$ " long
15'-20'	Similar sand with pebbles up to $\frac{1}{4}$ in long. Pebbles are mostly quartz.
20'-25'	Light reddish-brown fine to coarse wellrounded quartz sand.
25'-30'	light reddish-brown Light brick red medium-sand containing a few pebbles.
30'-35'	Similar - A few chips of porous medium-grained sandstone
35'-40'	Light brick red medium silty sand.
40'-45'	Similar
45'-50'	Light brown medium sand - a few chips of clay. T.D.

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Strange Mine Hole #32	
0'-5'	Brick red loose fine to medium sand.
5'-10'	Similar sand containing considerable MnO ₂ grains and numerous small well rounded pebbles of quartzite.
10'-15'	Similar sand containing MnO ₂ and some pink & white clay.
15'-20'	Red clay containing grains of white & yellow clay and scattered quartz & manganese grains.
20'-25'	Light salmon silty clay containing many grains of white clay and chert fragments. A little medium sand.
25'-30'	Fine to coarse sand containing a few pebbles of quartzite - a little chert from above.
30'-35' (4 hrs total)	Fine to coarse sand and fine gravel. Many of grains are nearly spherical (may not be gravel).
35'-40'	Similar
40'-45'	Somewhat more homogeneous red sand
45'-50'	Fine to medium dusty red sand. T.D.

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Strange Mine - Hole #33

0-10	Red silty clay containing grains of pink & white chert and a little Mn.
<u>Don</u> <u>DB</u>	fine to Reddish brown, coarse sand and fine gravel containing chips of hard sandstone
10-30	Reddish brown fine sand, lighter color in lower part
30-50	Reddish brown fine sand, lighter color in lower part

Strange Mine - Hole #34

0-5	Tan coarse sandstone and fine pebbly conglomerate
5-30	Similar but brownish-tans becomes redder downward in section
30-65	Fine gray sand containing a few small quartz pebbles - Trace Mn chips of fine-grained sandstone
65-78	Grayish- and yellowish tan & very finely sandy silt containing in lower part a few chips of very fine-grained sandstone

Top at yellow silt at 67' (Muon)

Pore sample from 75-78

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Strange Mine - Hole # (35)	
0 - 5	Brownish-tan coarse sand & fine gravel
5 - 20	Fine light reddish-brown fine sand containing a few coarse grainings
20 - 50	Fine - Dark gray fine sand containing a little Mn. A few chips of hard sandstone
50 - 55	Yellow ^{very} finely sandy silt
55 - 64	Light cream-colored very finely sandy silt containing chips of very fine-grained sandstone T.D.
All Db.	

NAME Location of Holes
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From Moon.

No.	Alt	Coast	N	F
1	3045		5010	4963
12	3042		4990	4864
8	3044		5107	4942
18	3041		5088	4844
7	3038		5065	4747
20	3013		5170	5234
9	3021		5162	5137
19	3045		5127	5040
13	3031		4895	5402
14	3034		4926	5495
15	3029		4952	5593
16	3029		4956	5693
3	3046		5000	5479
4	3054		5036	5571
5	3050		5050	5666
23	3026		4894	5303
24	3028		4997	5379
10	3035		5191	5332
21	3034		5212	5432
22	3059		5255	5625
11	3049		5233	5529
2	3072		5186	5692
25	3074		5201	5740
26	3005		5284	5315
27	3001		4853	5040
28	3001		4939	5044
29	2998		5007	5116
30				
31				
32				
33				